

# Additives and rheology of polymer processing

Andreas Thürmer and Ekaterina Troussard

SIBUR | PolyLab Webinar, 19.08.2021

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## Overview

- General Polymer Properties
- Characterization of Polymer Melts  
(Viscoelastic properties / Rheology)
- Processing Technology and Processing Window
- Extrusion Technologies
- Injection Molding
- Processing Aids

SIBUR | PolyLab Webinar - BASF Plastic Additives - 19 August 2021

Internal

**BASF**

## World major thermoplastic resins breakdown

World Capacities 2015 (Million metric ton)



# Formulation Additives By Basf

**Michael Ash**



## **Formulation Additives By Basf:**

Polymers for Personal Care Products and Cosmetics Xian Jun Loh, 2016-07-14 All aspects of the personal care industry will be comprehensively discussed in Polymers for Personal Care Products and Cosmetics including biological targets safety issues and the legal and regulatory aspects of this large industry There will be a broad overview of cosmetic ingredients vehicles and finished products as well as coverage of the main methodologies for microbiology safety and efficacy testing The reader will be provided with a solid background of the fundamentals of the area before being brought up to date on the future of this field along with discussion of the latest materials trends and future perspectives Written by a World renowned expert in the area the book will provide a unique look into this fast developing industry from interviews carried out with key experts in industry and academia The advantages and disadvantages of the technologies involved in the development of these materials will be highlighted providing a balanced and thorough review of the current state of the art research This book will appeal to researchers academics and students working in polymer and materials chemistry particularly those with an interest in personal care products **Smart Manufacturing** Masoud Soroush, Michael Baldea, Thomas F. Edgar, 2020-08-04

Research efforts in the past decade have led to considerable advances in the concepts and methods of smart manufacturing Smart Manufacturing Applications and Case Studies includes information about the key applications of these new methods as well as practitioners accounts of real life applications and case studies Written by thought leaders in the field from around the world Smart Manufacturing Applications and Case Studies is essential reading for graduate students researchers process engineers and managers It is complemented by a companion book titled Smart Manufacturing Concepts and Methods which describes smart manufacturing methods in detail Includes examples of applications of smart manufacturing in process industries Provides a thorough overview of the subject and practical examples of applications through well researched case studies Offers insights and accounts of first hand experiences to motivate further implementations of the key concepts of smart manufacturing Electrorheological Fluids And Magnetorheological Suspensions - Proceedings Of The 10th

International Conference On Ermr 2006 Faramarz Gordaninejad, Olivia Graeve, Alan Fuchs, David York, 2007-10-17 ERMR 2006 included invited speakers technical presentations poster presentations and a student paper competition At the conference banquet Dr David Carlson of Lord Corporation addressed the conference attendees and gave a stirring speech on the history of ER and MR fluids as well as current and future applications A unique feature of the ERMR Conferences is that they comprehensively cover issues ranging from physics to chemistry to engineering applications of ER and MR materials held in a general session to enhance the interaction between the scientists and engineers The sessions in ERMR 2006 were organized based into two Symposia a Materials and b Applications Topics covered in the Materials Symposium included mechanisms preparation and characterization of ER and MR materials Topics covered in the Applications Symposium included ER and MR devices control systems system integration and applications This structure was implemented in order to

enable interaction between attending scientists and engineers in both the Materials Symposium and the Applications Symposium and to enhance the free flow of ideas and the potential collaborative research opportunities *Proceedings of the 10th International Conference on Electrorheological Fluids and Magnetorheological Suspensions* Faramarz Gordaninejad, 2007 ERMR 2006 included invited speakers technical presentations poster presentations and a student paper competition At the conference banquet Dr David Carlson of Lord Corporation addressed the conference attendees and gave a stirring speech on the history of ER and MR fluids as well as current and future applications A unique feature of the ERMR Conferences is that they comprehensively cover issues ranging from physics to chemistry to engineering applications of ER and MR materials held in a general session to enhance the interaction between the scientists and engineers The sessions in ERMR 2006 were organized based into two Symposia a Materials and b Applications Topics covered in the Materials Symposium included mechanisms preparation and characterization of ER and MR materials Topics covered in the Applications Symposium included ER and MR devices control systems system integration and applications This structure was implemented in order to enable interaction between attending scientists and engineers in both the Materials Symposium and the Applications Symposium and to enhance the free flow of ideas and the potential collaborative research opportunities

*Formulation of Microbial Biopesticides* H.D. Burges, 2012-12-06 Sound formulation is a vital aspect of microbial products used to protect plants from pests and diseases and to improve plant performance Formulation of Microbial Biopesticides is an in depth treatment of this vitally important subject Written by experts and carefully edited this important title brings together a huge wealth of information for the first time within the covers of one book The book is broadly divided into five sections covering principles of formulation organisms with peroral and contact modes of action organisms with the power of search and future trends Each section contains comprehensive chapters written by internationally acknowledged experts in the areas covered the book also includes three very useful appendices cataloguing formulation additives spray application criteria and terminology This outstanding book is a vitally important reference work for anyone involved in the formulation of microbial biopesticides and should find a place on the shelves of agriculture and plant scientists microbiologists and entomologists working in academic and commercial agrochemical situations and in the libraries of all research establishments and companies where this exciting subject is researched studied or taught **Handbook of Industrial**

**Chemical Additives** Michael Ash, 1991 Contains over 18 000 entries for chemical trademark products currently sold throughout the world **International Pesticide Directory**, 1995 **Advances in Refining Catalysis** Deniz

Uner, 2017-03-16 To meet changing market demands that have stringent emission standards and to ensure proper performance in refinery units evaluation of novel catalyst designs and results from material characterization and testing of catalysts are of crucial importance for refiners as well as for catalyst manufacturers This book highlights recent developments in the application of refinery catalysts in selected units such as fluid catalytic cracking FCC hydrogen

production for hydroprocessing units hydrotreating hydrocracking and sustainable processing of biomass into biofuels

**McCutcheon's Emulsifiers & Detergents** ,2004      **Paper Technology and Industry** ,1985      **Petroleum Review** ,1993      Paper Technology ,2003      PIMA's ... Papermaker ,2000      Thomas Register of American Manufacturers ,2002  
This basic source for identification of U S manufacturers is arranged by product in a large multi volume set Includes Products services Company profiles and Catalog file      **Ultra Clean Processing of Semiconductor Surfaces XI** Paul Mertens,Marc Meuris,Marc Heyns,2012-12-27 Selected peer reviewed papers from the 11th International Symposium on Ultra Clean Processing of Semiconductor Surfaces UCPSS September 17 19 2012 Gent Belgium      **Thomas Register of American Manufacturers and Thomas Register Catalog File** ,2002 Vols for 1970 71 includes manufacturers catalogs      Plastics World ,1996      **Modern Plastics Worldwide** ,2005      **Feed Management** ,1996      **The Feed Industry Red Book** ,1989

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